

CLAIMS

1. A clutch for an oscillating fan characterized by its ability to automatically adjust to zero oscillation upon restraint, comprising, in combination, a fan motor having a drive shaft rotating in a given direction about a first axis, a bell crank mounted upon said drive shaft for rotation therewith about said first axis of rotation, an oscillating lever drive pin support rotatably adjustably mounted on said bell crank about a second axis of rotation radially offset and parallel to said first axis of rotation, an oscillating lever drive pin mounted on said lever drive pin support adopted to be affixed to a fan oscillating lever, said pin having a third axis radially offset from said second axis a distance equal to the offset of said second axis from said first axis, indexing means interposed between said bell crank and said pin support permitting relative indexing rotation therebetween about said second axis to adjust the eccentricity between said first and third axes, and frictional releasably means operatively associated with said indexing means permitting the degree of eccentricity between said first and third axes to automatically adjust in accordance with the degree of restraint imposed upon the fan oscillation.

2. In a clutch for an oscillating fan as in claim 1, wherein spring means bias said frictionally releasable means for said indexing means toward a locked operative condition and release said indexing means upon restraint of said pin support attaining a predetermined degree.

3. In a clutch for an oscillating fan as in claim 2, said indexing means comprising

cam surfaces.

4. In a clutch for an oscillating fan as in claim 2, said indexing means comprising spherical balls received within semi-spherical recesses defined in at least one of said bell crank or pin support.

5. In a clutch for an oscillating fan as in claim 4, said spring means biasing said bell crank and said pin support toward each other.

6. In a clutch for an oscillating fan as in claim 1, said bell crank having first and second sides, said drive shaft being located on said first side, said second side being planar and perpendicular to said first axis, said pin support having third and fourth sides, said drive pin being mounted on said fourth side, said third side being planar and perpendicular to said third axis, a connecting pin connecting said bell crank and said pin support for relative rotation about said second axis wherein said second and third sides are in spaced parallel relationship, detent recesses defined in said second and third sides, a detent in recesses defined in said second and third sides indexable interconnecting said bell crank and pin support for simultaneous rotation, said recesses being so located relative to said second axis that upon a predetermined relative rotation of said bell crank and pin support said first and third axes align, and a spring mounted on said connecting pin biasing said bell crank and pin support toward each other to establish engagement of said detent with said recesses and permitting said detent to release from a recess upon a predetermined torque being interposed

upon said bell crank and pin support.

7. In a clutch for an oscillating fan as in claim 6, a plurality of recesses defined on said second or third sides spaced about said second axis permitting the degree of eccentricity of said third axis to said first axis to be adjusted.

8. In a clutch for an oscillating fan as in claim 7, two detents being interposed between said second and third sides located on diametrically opposite sides of said second axis.